Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Please amend the claims as follows:

1. (Previously presented) A system for an ADSL access network for providing ADSL provision flow control at a DSLAM switch, comprising:

a network management system in communication with an element management system that is in communication with the DSLAM switch, the network management system including a control algorithm for controlling ADSL provision flow on a DSLAM switch by introducing a two level semaphore including a first semaphore and a second semaphore;

wherein the first semaphore controls a first provision request flow at the element management system level and the second semaphore controls a second provision request flow at the DSLAM switch level.

2. (Previously presented) The system according to claim 1, further comprising the element management system in communication with the DSLAM switch.

3. (Previously presented) The system according to claim 2, further comprising at least one of the following:

a plurality of DSLAM switches in communication with the element management system; and

a semaphore count register in communication with the control algorithm.

4. (Original) The system according to claim 1, further comprising a first object defined by the network management system for representing that a GUI operator is requesting activity on the DSLAM switch.

5. (Original) The system according to claim 1, further comprising a second object defined by the network management system for representing that a batch process is requesting activity on the DSLAM switch.

6. (Previously presented) A system for an ADSL access network for providing ADSL provision flow control at a DSLAM switch, comprising:

means for managing an ADSL access network element in communication with means for multiplexing an ADSL subscriber line and in communication with means for managing the ADSL access network;

wherein the means for managing the ADSL access network includes means for controlling ADSL provision flow on a DSLAM switch by introducing a two level semaphore including a first semaphore and a second semaphore; and

wherein the first semaphore controls a first provision request flow at the means for managing the ADSL network element level and the second semaphore controls a second provision request flow at the means for multiplexing level.

7. (Previously presented) The system according to claim 6, further comprising at least one of the following:

the means for multiplexing the ADSL subscriber line;

the means for managing the ADSL access network; and

means for tracking a semaphore in communication with the control algorithm.

8. (Original) The system according to claim 6, further comprising a plurality of means for multiplexing an ADSL subscriber line in communication with the means for managing an ADSL access network element.

9. (Previously presented) The system according to claim 7, wherein the system includes the means for managing the ADSL access network further comprising a first object whose attribute is defined by the means for managing the ADSL access network for representing

that a GUI operator is requesting activity on the means for multiplexing the ADSL subscriber line.

10. (Previously presented) The system according to claim 7, wherein the system includes the means for managing the ADSL access network further comprising a second object whose attribute is defined by the means for managing the ADSL access network for representing that a batch process is requesting activity on the means for multiplexing the ADSL subscriber line.

11. (Previously presented) A method of providing ADSL provision flow control at a DSLAM switch, comprising:

sending a provision request from a network management system to a DSLAM switch;

determining whether a DSLAM level semaphore is available at the DSLAM switch;

determining whether an element management system level semaphore is available; and

connecting the network management system to the DSLAM switch.

12. (Original) The method according to claim 11, further comprising delaying when the DSLAM level semaphore is not available.

13. (Currently amended) The method according to claim 12, wherein delaying comprises delaying for ~~about~~ 10-15 seconds, and the delaying is different between a GUI order and a batch order.

14. (Original) The method according to claim 11, further comprising determining whether a connection is being configured on a corresponding DSLAM switch when the DSLAM level semaphore is available at the DSLAM switch.

15. (Original) The method according to claim 14, further comprising locking the DSLAM level semaphore to the DSLAM switch when a connection is being configured on the DSLAM.

16. (Original) The method according to claim 14, further comprising blocking other connection requests on the DSLAM switch when a connection request is being configured on the DSLAM switch.

17. (Original) The method according to claim 11, further comprising releasing the DSLAM level semaphore when the element management system semaphore is not available.

18. (Original) The method according to claim 17, further comprising delaying after releasing the DSLAM level semaphore.

19. (Currently amended) The method according to claim 18, wherein delaying comprises delaying for ~~about~~ 10-15 seconds.

20. (Original) A method of providing ADSL provision flow control at a DSLAM switch, comprising:

determining whether a provision request for a DSLAM switch was issued by a GUI operator; and

resetting an attribute associated with the provision request made by the GUI operator.

21. (Original) The method according to claim 20, wherein resetting an attribute comprises resetting an object associated with the provision request made by the GUI operator.

22. (Original) The method according to claim 20, wherein determining whether a provision request was issued by a GUI operator comprises determining whether a GUI request flag is set.

23. (Original) The method according to claim 20, further comprising determining whether there is a batch process provision request when there is no provision request for a DSLAM switch issued by the GUI operator.

24. (Original) The method according to claim 23, wherein determining whether a provision request was issued by a batch process comprise determining whether a batch request flag is set.

25. (Original) The method according to claim 20, further comprising determining whether a batch provision request acquired a semaphore.

26. (Original) The method according to claim 25, further comprising processing the batch provision request.

27. (Original) The method according to claim 25, further comprising delaying for a predetermined period when the batch provision request does not acquire the semaphore.

28. (Currently amended) A computer program product comprising a computer-readable medium having control logic stored therein for causing a computer to provide ADSL provision flow control at a DSLAM switch, the control logic comprising computer-readable program code for causing the computer to:

send a provision request to the DSLAM switch to establish a virtual circuit;

determine whether a DSLAM level semaphore is available at the DSLAM switch;

determine whether an element management system level semaphore is available; and

connect a network management system to the DSLAM switch in response the DSLAM level semaphore and the element management system level semaphore being available.

29. (Previously presented) The computer program product according to claim 28, further comprising computer-readable program code for causing the computer to delay when the DSLAM level semaphore is not available.

30. (Previously presented) The computer program product according to claim 28, further comprising computer-readable program code for causing the computer to determine

whether a connection is being configured on a corresponding DSLAM switch when the DSLAM level semaphore is available at the DSLAM switch.

31. (Previously presented) A system for an ADSL access network for providing ADSL provision flow control at a DSLAM switch, comprising:

means for multiplexing an ADSL subscriber line, the means for multiplexing in communication with means for managing an ADSL access network element;

wherein the means for managing an ADSL access network element is in communication with means for managing the ADSL access network;

wherein the means for managing the ADSL access network includes means for controlling ADSL provision flow on a DSLAM switch by introducing a two level semaphore including a first semaphore and a second semaphore; and

wherein the first semaphore controls a first provision request flow at the means for managing the ADSL network element level and the second semaphore controls a second provision request flow at the means for multiplexing level.

32. (Previously presented) The system according to claim 31, further comprising at least one of the following:

the means for managing the ADSL access network element; and

the means for managing the ADSL access network.